Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 16743-004001	Application No. 10/813,549
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant: You-Di Liao	
		Filing Date: March 29, 2004	Group Art Unit: Unknown

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
WWM	AA	5,013,662	05/07/1991	Ben-Bassat, et al.	435	212	
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation Yes	Translation No
	AL							
	AM							
	AN							
	AO							
	AP							

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
WWM	AQ	Abe, A., *et al.* (2000) Acetylation at the N-terminus of actin strengthens weak interaction between actin and myosin. Biochem. Biophys. Res. Commun., 268:14-19.
WWM	AR	Adachi, K., *et al.* (2000) Expression of functional soluble human α-globin chains of hemoglobin in bacteria. Protein Expr. Purif., 20:37-44.
WWM	AS	Belagaje, R.M., *et al.* (1997) Increased production of low molecular weight recombinant proteins in *Escherichia coli*. Protein Sci., 6:1953-1962.

Examiner Signature	Date Considered
/William W. Moore/	2 December 2005

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Form PTO-1449 (Modified) U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 16743-004001	Application No. 10/813,549
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	Applicant: You-Di Liao	
	Filing Date: March 29, 2004	Group Art Unit: Unknown

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
WWM	AT	Ben-Bassat, A., *et al.* (1987) Processing of the initiation methionine from proteins: properties of the *Escherichia coli* methionine aminopeptidase and its gene structure. J. Bacteriol., 169(2):751-757.
	AU	Boix, E., *et al.* (1996) Role of the N terminus in RNase A homologues: differences in catalytic activity, ribonuclease inhibitor interaction and cytotoxicity. J. Mol. Biol., 257:992-1007.
	AV	Busby, W.H., Jr., *et al.* (1987) An enzyme(s) that converts glutaminyl-peptides into pyroglutamyl-peptides. Presence in pituitary, brain, adrenal medulla, and lymphocytes. J. Biol. Chem., 262(18):8532-8536.
	AW	Chang, S.Y., *et al.* (1989) Methionine aminopeptidase gene of *Escherichia coli* is essential for cell growth. J. Bacteriol., 171(7):4071-4072.
	AX	Chen, S., *et al.* (2002) The specificity *in vivo* of two distinct methionine aminopeptidases in *Saccharomyces cerevisiae*. Arch. Biochem. Biophys., 398(1):87-93.
	AY	Chiu, C.H., *et al.* (1999) Amino acid residues involved in the functional integrity of *Escherichia coli* methionine aminopeptidase. J Bacteriol 181(15):4686-4689.
	AZ	Endo, S., *et al.* (2001) The additional methionine residue at the N-terminus of bacterially expressed human interleukin-2 affects the interaction between the N- and C-termini. Biochemistry, 40:914-919.
	AAA	Fischer, W.H., and Spiess, J. (1987) Identification of a mammalian glutaminyl cyclase converting glutaminyl into pyroglutamyl peptides. Proc. Natl. Acad. Sci. U.S.A., 84:3628-3632.
	ABB	Hirel, P.H., *et al.* (1989) Extent of N-terminal methionine excision from *Escherichia coli* proteins is governed by the side-chain length of the penultimate amino acid. Proc. Natl. Acad. Sci. U.S.A., 86:8247-8251.
	ACC	Huang, H.C., *et al.* (1998) The Rana *catesbeiana rcr* gene encoding a cytotoxic ribonuclease. Tissue distribution, cloning, purification, cytotoxicity, and active residues for RNase activity. J. Biol. Chem., 273(11):6395-6401.
	ADD	Hwang, D.D.W., *et al.* (1999) Co-expression of glutathione S-transferase with methionine aminopeptidase: a system of producing enriched N-terminal processed proteins in *Escherichia coli*. Biochem. J., 338(Pt 2):335-342.
V	AEE	Ishitani, M., *et al.* (2000) SOS3 function in plant salt tolerance requires N-myristoylation and calcium binding. Plant Cell, 12:1667-1677.
WWM	AFF	Leu, Y.J., *et al.* (2003) Residues involved in the catalysis, base specificity, and cytotoxicity of ribonuclease from *Rana catesbeiana* based upon mutagenesis and X-ray crystallography. J. Biol. Chem., 278(9):7300-7309.

Examiner Signature: William W. Moore	Date Considered: 2 December 2005

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 16743-004001	Application No. 10/813,549
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant: You-Di Liao	
		Filing Date: March 29, 2004	Group Art Unit: Unknown

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
WWM	AGG	Li, X., and Chang, Y.H. (1995) Amino-terminal protein processing in *Saccharomyces cerevisiae* is an essential function that requires two distinct methionine aminopeptidases. Proc. Natl. Acad. Sci. U.S.A., 92:12357-12361.
	AHH	Liao, Y.D., and Wang, J.J. (1994). Yolk granules are the major compartment for bullfrog (*Rana catesbeiana*) oocyte-specific ribonuclease. Eur J Biochem., 222:215-220.
	AII	Liao, Y.D., *et al.* (2000) Purification and cloning of cytotoxic ribonucleases from *Rana catesbeiana* (bullfrog). Nucleic Acids Res., 28(21):4097-4104.
	AJJ	Liao, Y.D., *et al.* (2003) The structural integrity exerted by N-terminal pyroglutamate is crucial for the cytotoxicity of frog ribonuclease from *Rana pipiens*. Nucleic Acids Res., 31(18):5247-5255.
	AKK	Lowther, W.T., *et al.* (1999) *Escherichia coli* methionine aminopeptidase: implications of crystallographic analyses of the native, mutant, and inhibited enzymes for the mechanism of catalysis. Biochemistry, 38:7678-7688.
	ALL	Lowther, W.T., and Matthews, B.W. (2000) Structure and function of the methionine aminopeptidases. Biochim. Biophys. Acta., 1477:157-167.
	AMM	Moerschell, R.P., *et al.* (1990) The specificities of yeast methionine aminopeptidase and acetylation of amino-terminal methionine *in vivo*. Processing of altered iso-1-cytochromes *c* created by oligonucleotide transformation. J. Biol. Chem., 265(32):19638-19643.
	ANN	Notomista, E., *et al.* (1999) Effective expression and purification of recombinant onconase, an antitumor protein. FEBS Lett., 463:211-215.
	AOO	Prchal, J.T., *et al.* (1986) Hemoglobin Long Island is caused by a single mutation (adenine to cytosine) resulting in a failure to cleave amino-terminal methionine. Proc. Natl. Acad. Sci. U.S.A., 83:24-27.
	APP	Roderick, S.L., and Matthews, B.W. (1993) Structure of the cobalt-dependent methionine aminopeptidase from *Escherichia coli*: a new type of proteolytic enzyme. Biochemistry, 32:3907-3912.
	AQQ	Shapiro, R., *et al.* (1988) Expression of Met-(-1) angiogenin in *Escherichia coli*: conversion to the authentic <Glu-1 protein. Anal. Biochem., 175:450-461.
	ARR	Tahirov, T.H., *et al.* (1998) Crystal structure of methionine aminopeptidase from hyperthermophile, *Pyrococcus furiosus*. J. Mol. Biol., 284:101-124.
↓	ASS	Tobias, J.W., *et al.* (1991) The N-end rule in bacteria. Science, 254:1374-1377.
WWM	ATT	Varshavsky, A. (1996) The N-end rule: functions, mysteries, uses. Proc. Natl. Acad. Sci. U.S.A., 93:12142-12149.

Examiner Signature	Date Considered
William W. Moore	2 December 2005

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Form PTO-1449 (Modified) U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 16743-004001	Application No. 10/813,549
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	Applicant: You-Di Liao	
	Filing Date: March 29, 2004	Group Art Unit: Unknown

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
WM	AUU	Vetro, J.A., and Chang, Y.H. (2002) Yeast methionine aminopeptidase type 1 is ribosome-associated and requires its N-terminal zinc finger domain for normal function *in vivo*. J. Cell. Biochem., 85:678-688.
WM	AVV	Walker, K.W., and Bradshaw, R.A. (1999) Yeast methionine aminopeptidase I. Alteration of substrate specificity by site-directed mutagenesis. J. Biol. Chem., 274(19):13403-13409.

Examiner Signature	Date Considered
William W. Moore	2 December 2005

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.